

1/7

FIG. 1

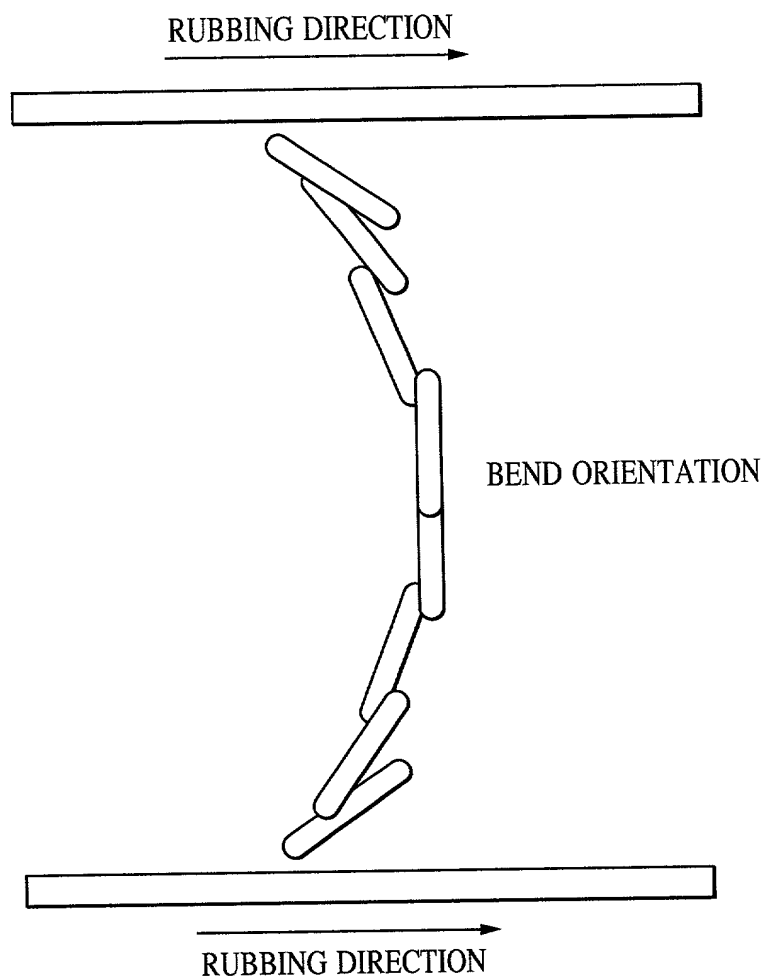


FIG. 2

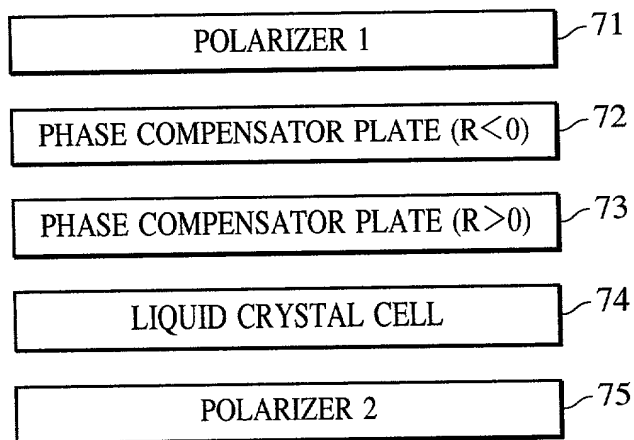


FIG. 3

EXAMPLE OF TEMPERATURE PROPERTIES OF Δn
OF LIQUID CRYSTAL COMPOSITION

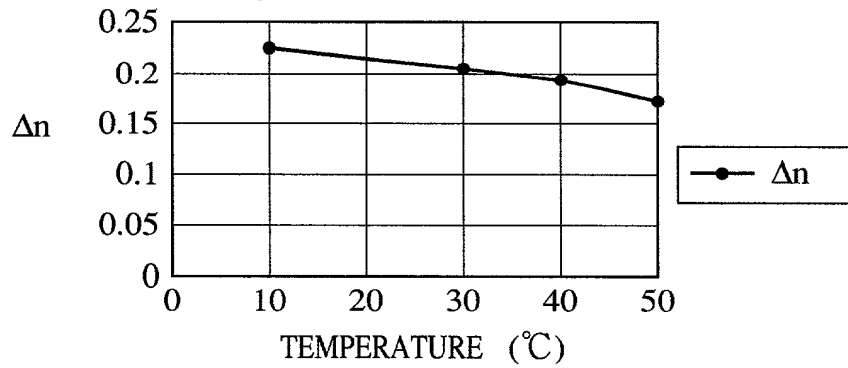


FIG. 4

CHANGE IN PRE-TILT ANGLE DUE TO TEMPERATURE

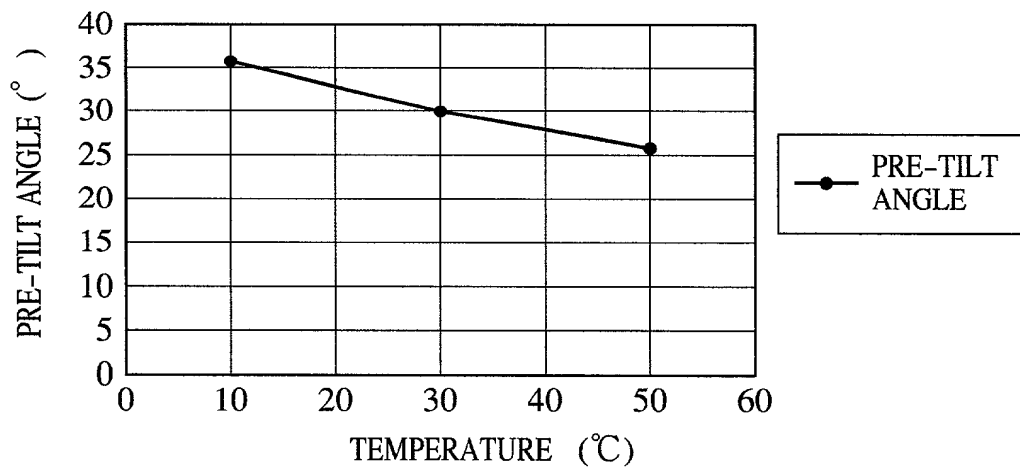


FIG. 5

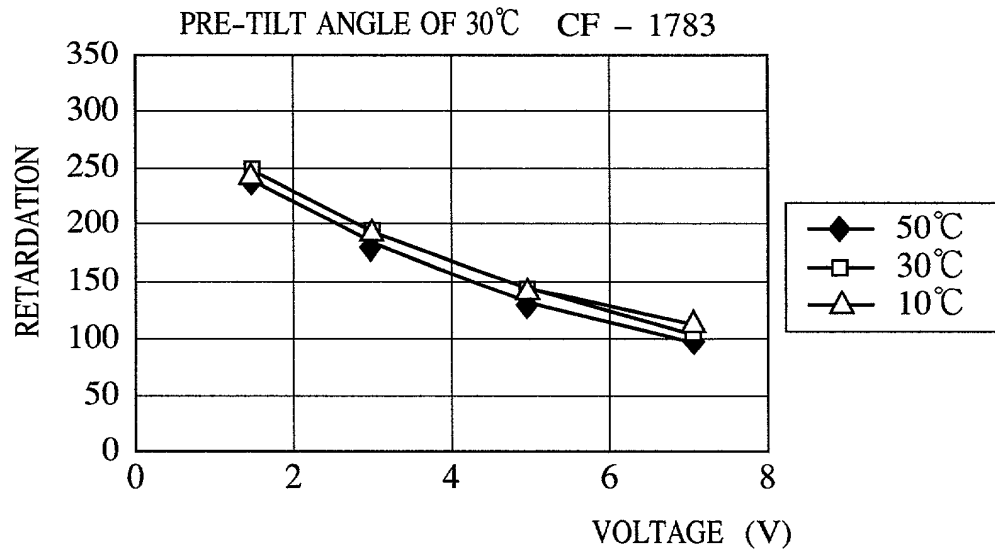


FIG. 6

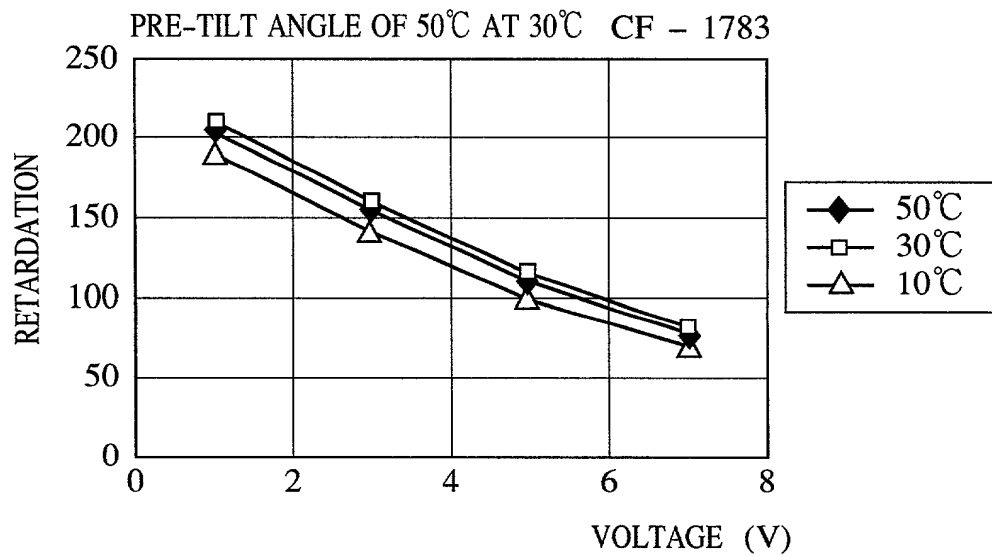


FIG. 7

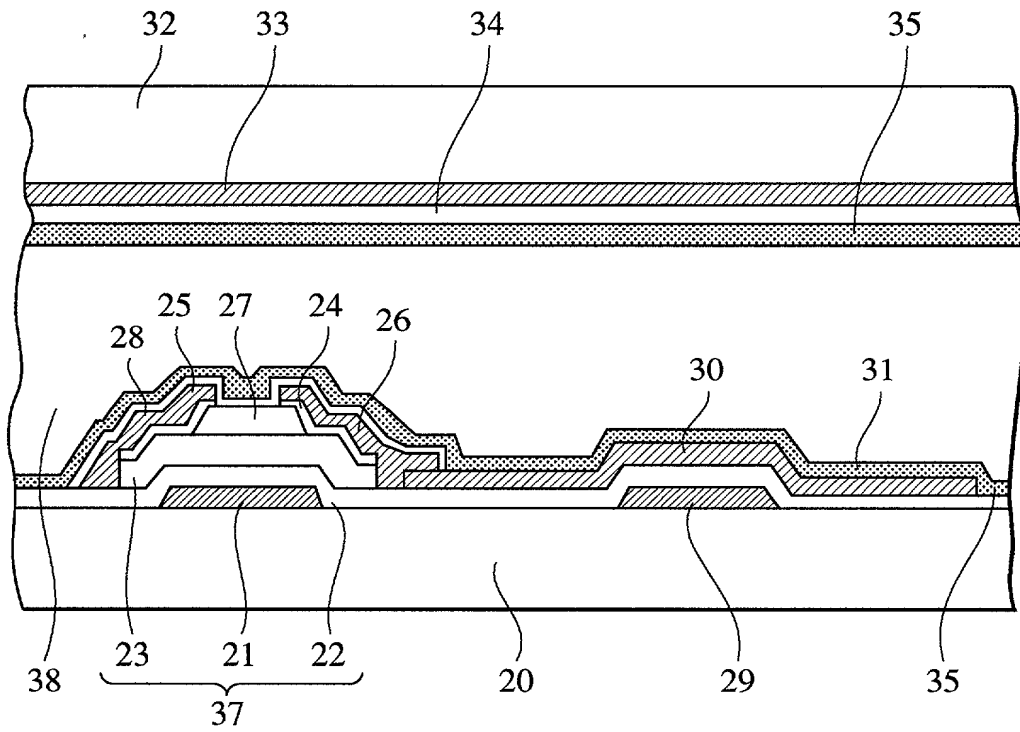
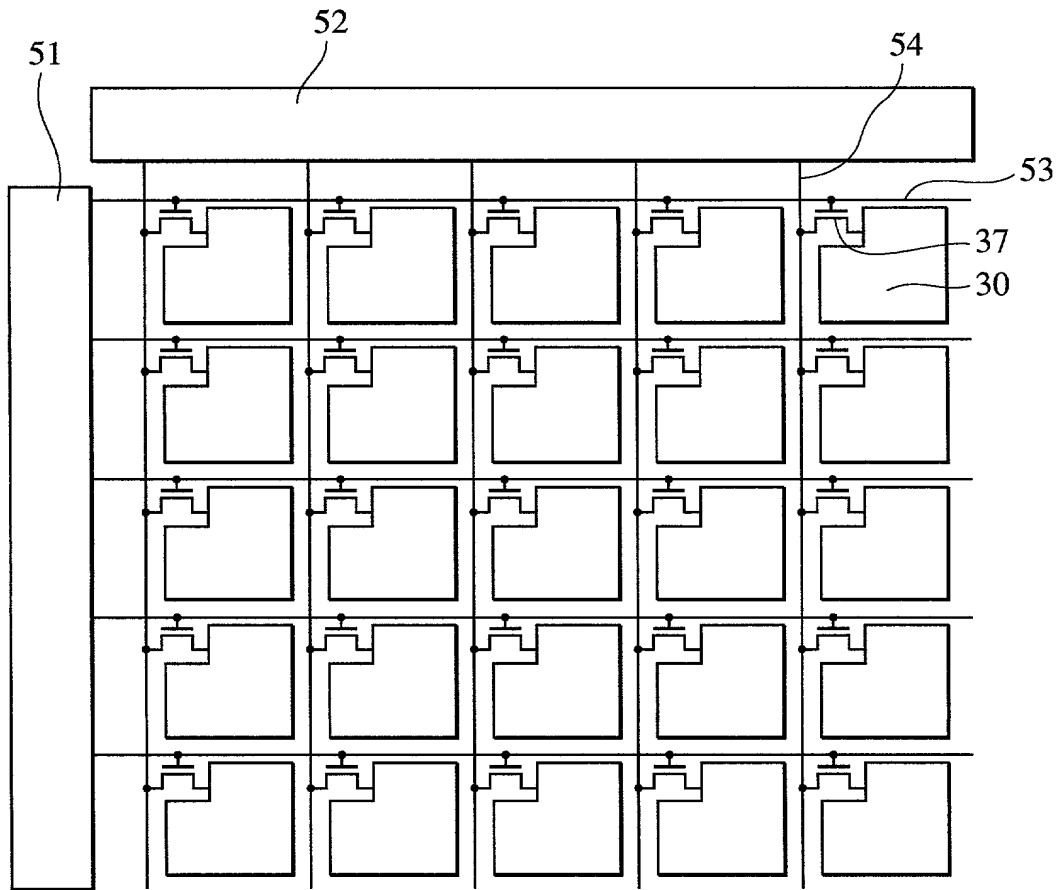


FIG. 8



The diagram illustrates the timing for a 1/60sec frame. It shows the following signals:

- Gate Voltages (G1, G2, ..., Gn):** These are pulsed signals that turn on for a duration of $1/60\text{sec}$ for each row. The pulse height is labeled V_{+g} .
- Source Voltages (S1):** The source voltage for the first row (S1) is shown as a step function. It is at V_{+s} during the first gate pulse and switches to V_{-s} during the second gate pulse. The time interval between the start of the first and second gate pulses is labeled ΔT_{scan} .
- Pixel Voltage (Pixell):** The pixel voltage is shown as a step function. It is at V_{+s} during the first gate pulse and switches to V_{-s} during the second gate pulse.

FIG. 10

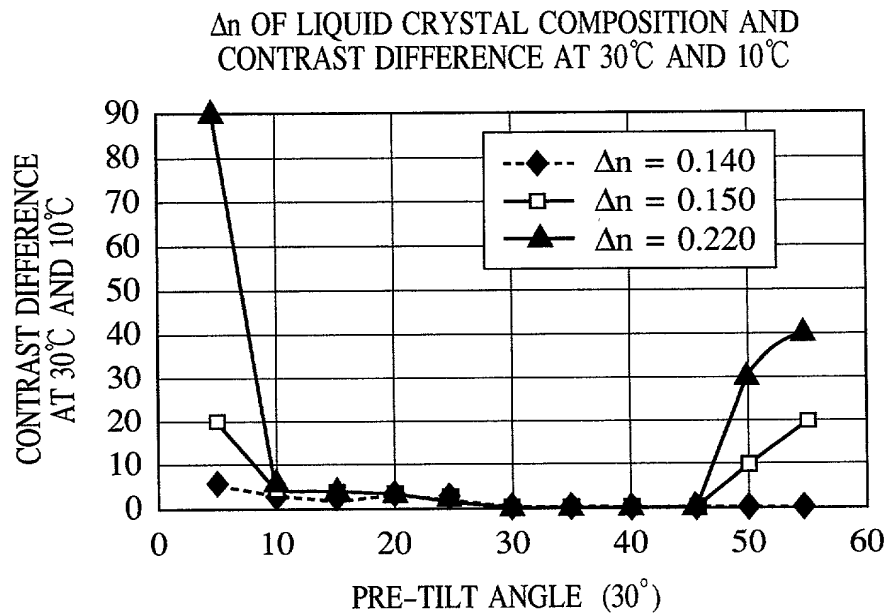


FIG. 11

